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LAW OFFICES OF JONATHAN ALAN QUINE

By Tracie Brooks  
Tracie Brooks

Attorney Docket No. 02-106720US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Juha Punnonen, et al.

Application No.: 09/888,324

Filed: June 22, 2001

For: NOVEL CO-STIMULATORY  
MOLECULES

Examiner: Unassigned

Art Unit: 1643

LETTER TO OFFICIAL DRAFTSPERSON

Attn:  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicant hereby submits 39 sheets of formal drawings to be made of record in the above-identified case.

Respectfully submitted,

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Emily M. Haliday, J.D., Ph.D.  
Reg. No. 38,903

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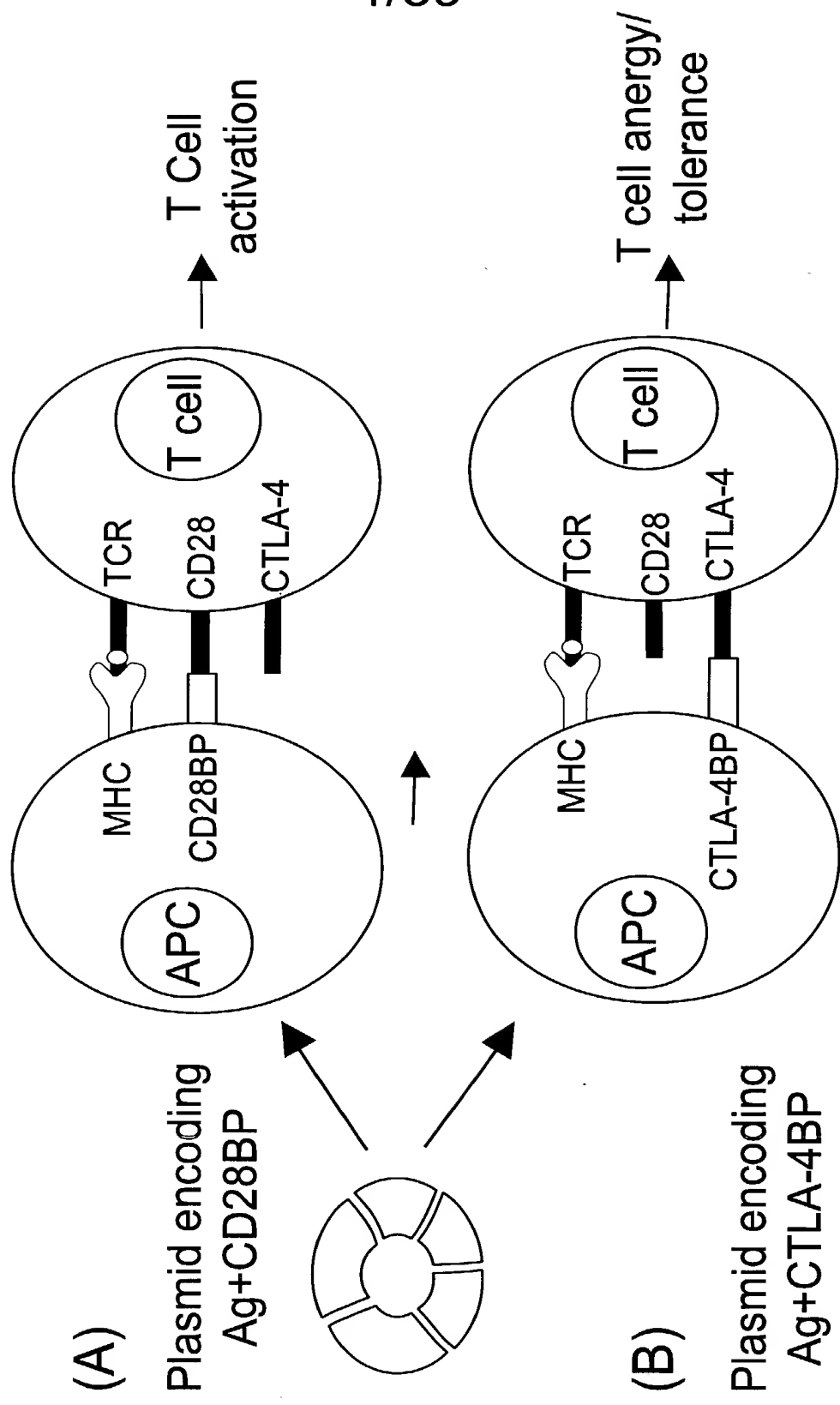


Fig. 1



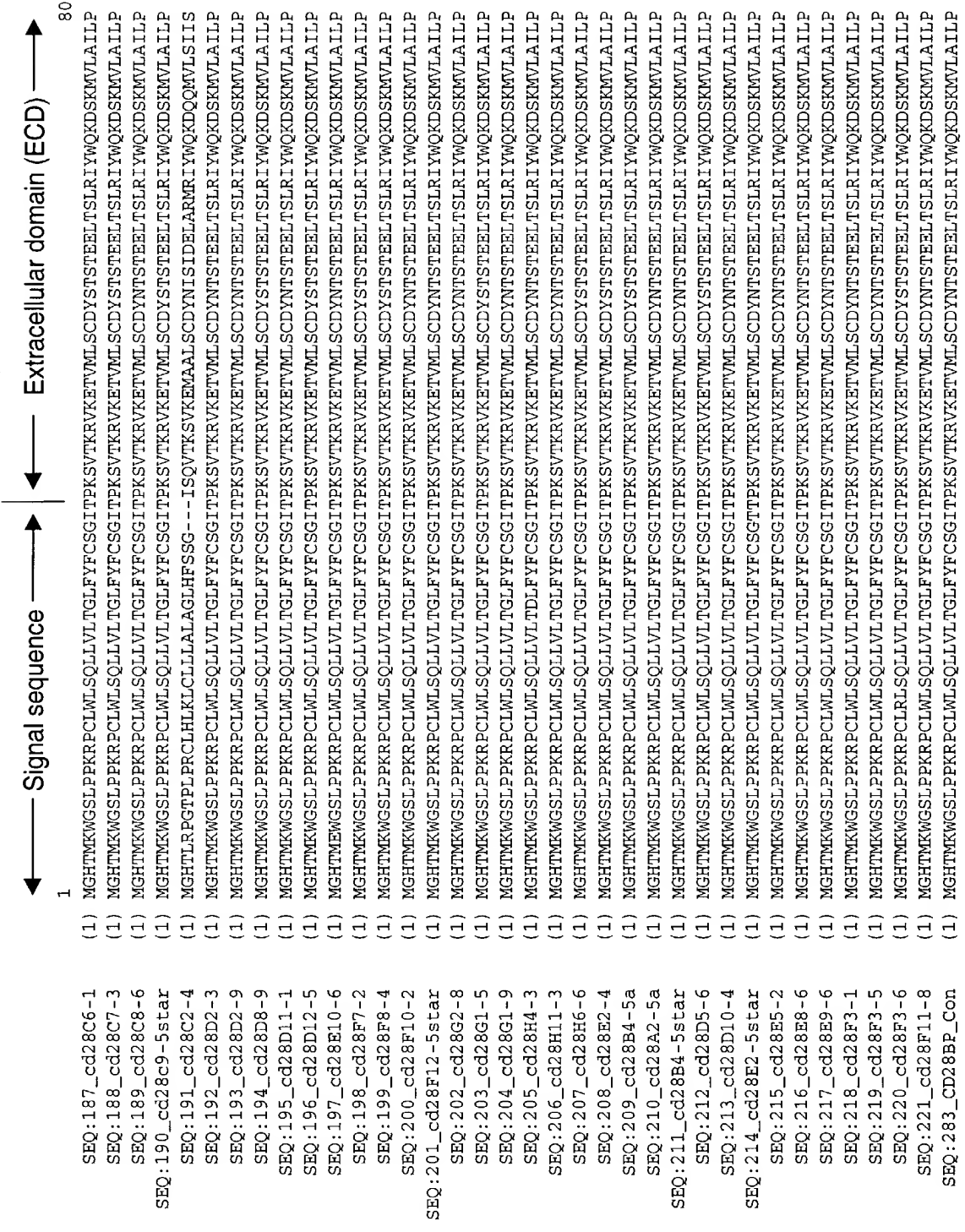


Fig. 2C



Fig. 2E

← Extracellular domain (ECD) →

161 240

SEQ:187\_cd28C6-1 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:188\_cd28C7-3 (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:189\_cd28C8-6 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:190\_cd28C9-5star (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:191\_cd28C2-4 (158) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:192\_cd28D2-3 (159) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:193\_cd28D2-9 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:194\_cd28D8-9 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:195\_cd28D11-1 (160) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:196\_cd28D12-5 (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTV--LDTELXSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:197\_cd28E10-6 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:198\_cd28F7-2 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:199\_cd28F8-4 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:200\_cd28F10-2 (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:201\_cd28F12-5star (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:202\_cd28G2-8 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:203\_cd28G1-5 (160) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:204\_cd28G1-9 (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:205\_cd28H4-3 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:206\_cd28H11-3 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:207\_cd28H6-6 (161) RRLICS---GFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:208\_cd28E2-4 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:209\_cd28B4-5a (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:210\_cd28A2-5a (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:211\_cd28B4-5star (161) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:212\_cd28D5-6 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:213\_cd28D10-4 (160) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:214\_cd28E2-5star (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:215\_cd28E5-2 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:216\_cd28E8-6 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:217\_cd28E9-6 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:218\_cd28F3-1 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:219\_cd28F3-5 (160) KRIRCSASGDFPEPRLAWMEDGEEELNAVNTTVQDLDTETLYSVSSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:220\_cd28F3-6 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:221\_cd28F11-8 (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE  
 SEQ:283\_CD28BP\_Con (161) RRLICSTSGGFPRLPHLYWLENGEELNATNTTVSQDPGTETLYMISSELDENVVTNNHSIVCLIKYGELSVSQIFPWSKPKQE

Fig. 2F



ECD → | ← TMD → | ← CD →  
 241 307  
 SEQ: 278\_Human\_B7-1 (238) HFPDNLPSWAITL-----ISVNGIFVICCLTYCFAPCRERRNE-RLRRESVVPV-----  
 SEQ: 048\_R1\_Clone\_71 (241) P-SANQHLTWIIIPVSAGFISVIIAVILTCLTCRNAAIRQRRENEVENQSCSQSP-----  
 SEQ: 049\_R1\_Clone\_84 (237) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 050\_R1\_Clone\_118 (237) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 051\_R1\_Clone\_126 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 052\_R2\_CD28BP-1 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 053\_R2\_CD28BP-2 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCPACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 054\_R2\_CD28BP-3 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 055\_R2\_CD28BP-4 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 056\_R2\_CD28BP-5 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 057\_R2\_CD28BP-6 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 058\_R2\_CD28BP-7 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 059\_R2\_CD28BP-8 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 060\_R2\_CD28BP-9 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 061\_R2\_CD28BP-10 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 062\_R2\_CD28BP-11 (240) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 063\_R2\_CD28BP-12 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 064\_R2\_CD28BP-13 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 065\_R2\_CD28BP-14 (238) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 066\_R2\_CD28BP-15 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 067\_R2\_CD28BP-16 (241) P-PIDQLPFWVIIP-----VSGALVLTAAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 068\_R2\_CD28BP-17 (240) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 174\_cd28A12-5 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 175\_cd28A4-5star (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 176\_cd28A4-9 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 177\_cd28A6-9 (241) P-PIDQLPFLVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 178\_cd28A6-1 (241) P-PIDQLPFRVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 179\_cd28A8-4 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 180\_cd28A8-6 (240) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 181\_cd28B2-8 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 182\_cd28B4-3 (241) P-SANQHLTWIIIPVSAGFISVIIAVILTCLTCRNAAIRQRRENEVENQSCSQSP-----  
 SEQ: 183\_cd28B6-3 (241) P-SANQHLTWIIIPVSAGFISVIIAVILTCLTCRNAAIRQRRENEVENQSCSQSP-----  
 SEQ: 184\_cd28B6-6 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 185\_cd28B8-5star (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG  
 SEQ: 186\_cd28c11-5 (241) P-PIDQLPFWVIIP-----VSGALVLTAVVLYCLACRHHVARKWKRTRRNEETVGTTERLSPIYLGSAQSSG

Fig. 2G

ECD → | ← TMD → | ← | → CD →

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241

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SEQ:187_cd28C6-1 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHGAWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:188_cd28C7-3 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:189_cd28C8-6 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:190_cd28C9-5star (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:191_cd28C2-4 (238) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP-----
SEQ:192_cd28D2-3 (239) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:193_cd28D2-9 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:194_cd28D8-9 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:195_cd28D11-1 (240) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:196_cd28D12-5 (238) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:197_cd28E10-6 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:198_cd28F7-2 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:199_cd28F8-4 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:200_cd28F10-2 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:201_cd28F12-5star (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:202_cd28G2-8 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:203_cd28G1-5 (240) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:204_cd28G1-9 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:205_cd28H4-3 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:206_cd28H11-3 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:207_cd28H6-6 (238) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:208_cd28E2-4 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:209_cd28B4-5a (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:210_cd28A2-5a (241) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEGKCKVLSVSGTKLKNR---
SEQ:211_cd28B4-5star (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:212_cd28D5-6 (241) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP-----
SEQ:213_cd28D10-4 (240) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:214_cd28E2-5star (241) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP-----
SEQ:215_cd28E5-2 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:216_cd28E8-6 (241) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP-----
SEQ:217_cd28E9-6 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:218_cd28F3-1 (241) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP-----
SEQ:219_cd28F3-5 (240) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:220_cd28F3-6 (241) P-PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG
SEQ:221_cd28F11-8 (238) P-SANQHLTWIIPVSAFGISVIIAVILTCLTCRNAAIRQRRENEVEMQSCSQSP-----
SEQ:283_CD28BP_Con (241) P PIDQLPFWWIIP---VSGALVLTAVVLYCLACRHVAVWKRTRRNEETVGTERLSPIYLGSAQSSG

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Fig. 2H

FILED IN THE OFFICE OF THE CLERK OF THE DISTRICT COURT OF THE DISTRICT OF COLUMBIA





(1) MGHTRRQGI<sup>1</sup>SPSKCPYLNF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>AGL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>LAGL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>LAGL<sup>5</sup>SHLCSG<sup>6</sup>VIH<sup>7</sup>VTNE<sup>8</sup>VKE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MYGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ASL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>MTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLNF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ASL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGLN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPKCPYLNF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ASL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ASL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGLN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLNF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ASL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ASL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>MTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MSHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

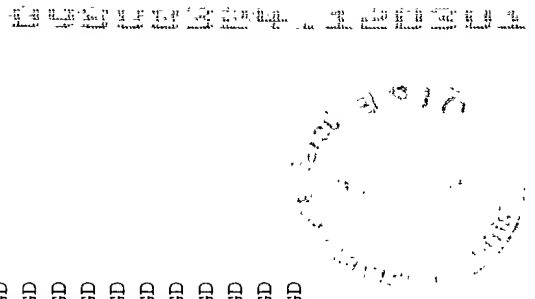
(1) MGHTRRQGI<sup>1</sup>SPSKCPYLNF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>LAGL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IYWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>ACL<sup>5</sup>SHLCSG<sup>6</sup>VIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGLN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>LAGL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR<sup>15</sup>IHWQ<sup>16</sup>KE<sup>17</sup>K<sup>18</sup>MVL<sup>19</sup>IT<sup>20</sup>MSGD

(1) MGHTRRQGI<sup>1</sup>SPSKCPYLKF<sup>2</sup>Q<sup>3</sup>LLV<sup>4</sup>MACL<sup>5</sup>SHFC<sup>6</sup>SGVIH<sup>7</sup>VTKE<sup>8</sup>VE<sup>9</sup>ATL<sup>10</sup>SCGHN<sup>11</sup>SV<sup>12</sup>EE<sup>13</sup>LAQ<sup>14</sup>TR

**Fig. 3A**



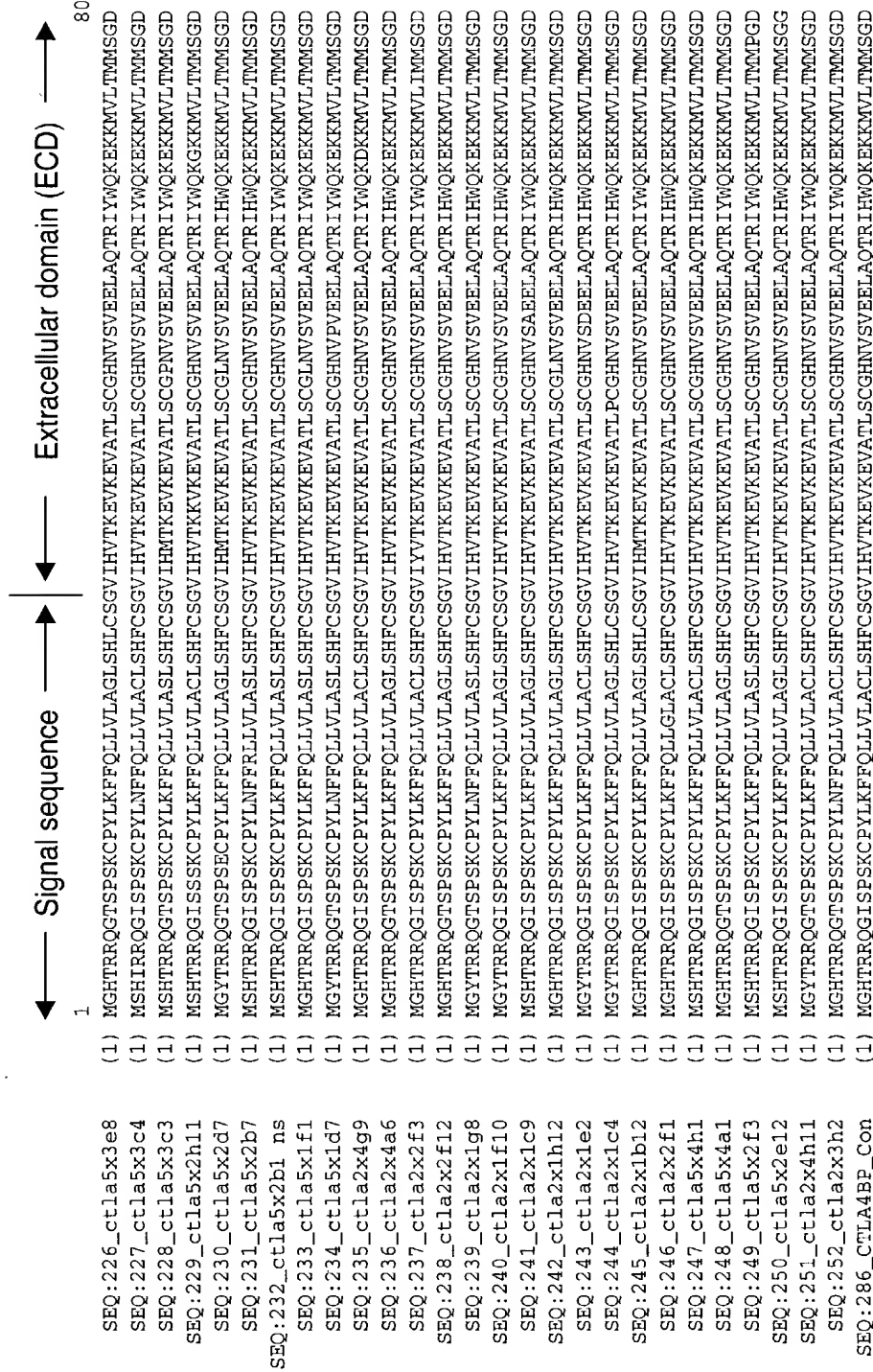


Fig. 3B



1910

Fig. 3C

A circular diagram illustrating the distribution of 100% across four categories. The circle is divided into four segments of different shades of gray. The segments are labeled with percentages and corresponding entities: 40% for 'The company', 30% for 'The industry', 20% for 'The market', and 10% for 'The customer'.

[illegible]

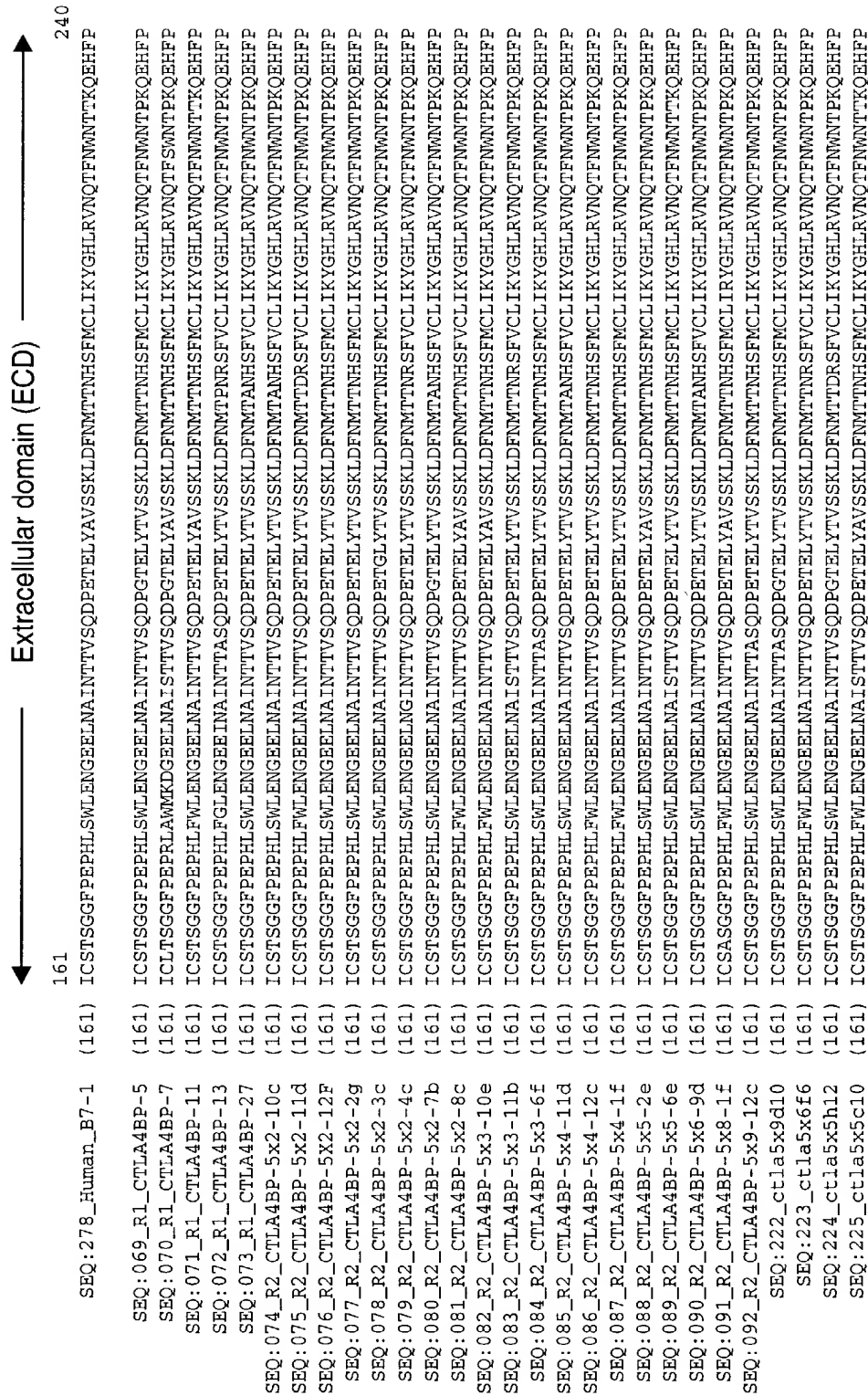


Fig. 3E

161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240

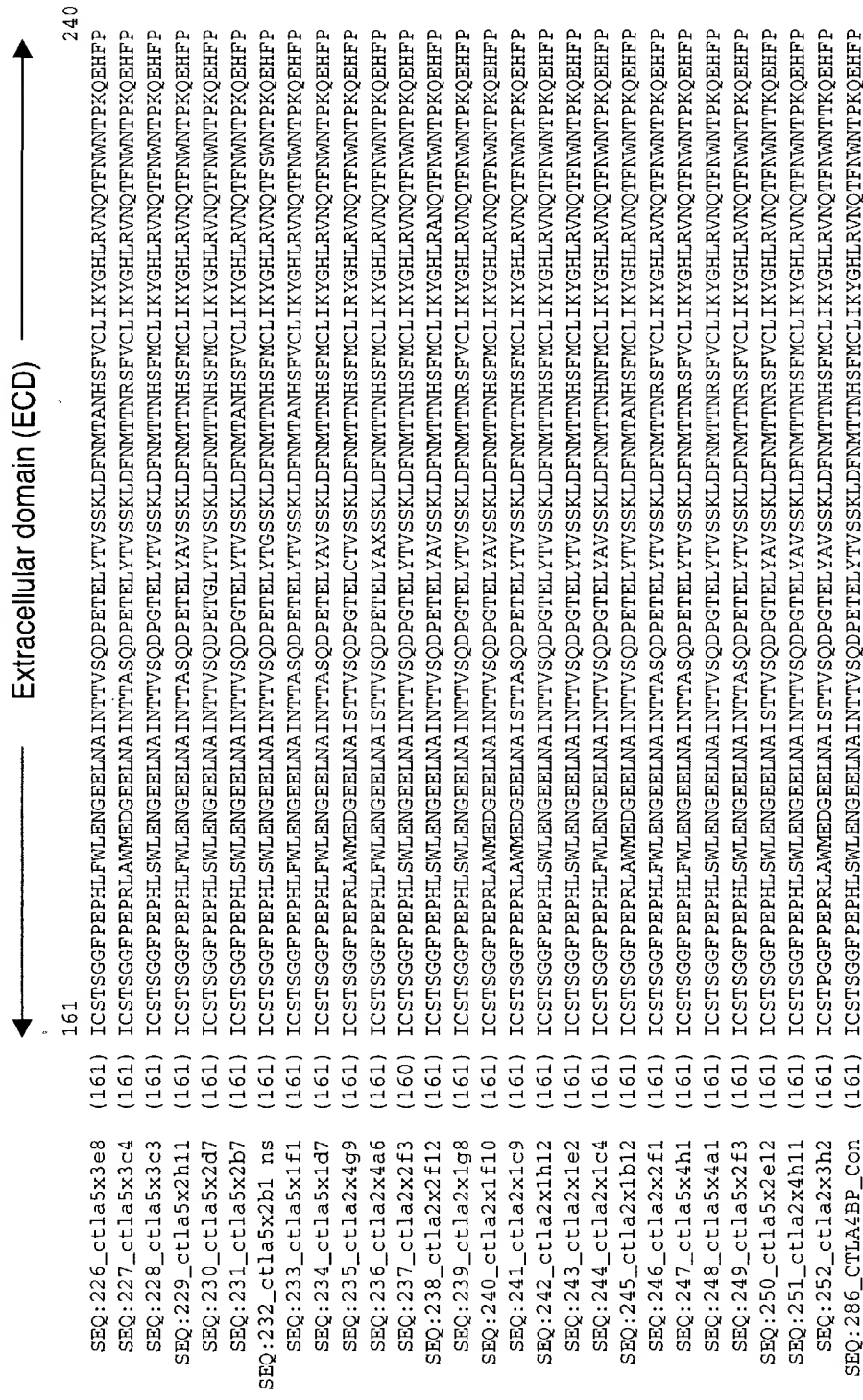


Fig. 3F





SEQ:278_Human_B7-1	241	ECD →   ← TMD →   ← CD →	288
	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV	
SEQ:069_R1_CTLA4BP-5	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV	
SEQ:070_R1_CTLA4BP-7	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV	
SEQ:071_R1_CTLA4BP-11	(241)	DNLLPSWAITLISVNGIFVICCLTHCFAPRCRERRRNERLRRESVHPV	
SEQ:072_R1_CTLA4BP-13	(241)	DNLLPSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVRPV	
SEQ:073_R1_CTLA4BP-27	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV	
SEQ:074_R2_CTLA4BP-5x2-10c	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERR-NETLRRESVRPV	
SEQ:075_R2_CTLA4BP-5x2-11d	(241)	DNLLPSWAITLISANGIFVICCLTYCFAPRCRERKSNETLRRESVRPV	
SEQ:076_R2_CTLA4BP-5X2-12F	(241)	DNLPWAITLISANGIFVICCLTYCFAPRCRERRRNETLRRESVRPV	
SEQ:077_R2_CTLA4BP-5x2-2g	(241)	DNLLPSWAITLISVNGIFVICCLTYRFAPRCRERKSNERLRRESVRPV	
SEQ:078_R2_CTLA4BP-5x2-3c	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVCPV	
SEQ:079_R2_CTLA4BP-5x2-4c	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVHPV	
SEQ:080_R2_CTLA4BP-5x2-7b	(241)	DNLLPSWAITLISANGIFVICCLTYCFAPRCRERRRNERLRRESVRPV	
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SEQ:082_R2_CTLA4BP-5x3-10e	(241)	DNLLPSWAITLISANGIFVICCLTYCFAPRCRERKSNERLRRESVHPV	
SEQ:083_R2_CTLA4BP-5x3-11b	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV	
SEQ:084_R2_CTLA4BP-5x3-6f	(241)	DNLLPSWAITLISANGIFVICCLAYCFAPGCRERKSNERLRRESVRPV	
SEQ:085_R2_CTLA4BP-5x4-11d	(241)	DNLLPSWAITLISVNGIFVICCLTYRFAPRCRERKSNERLRRESVRPV	
SEQ:086_R2_CTLA4BP-5x4-12c	(241)	DNLLPSWAITLISANGIFVICCLTYRFAPRCRERKSNETLRRESVRPV	
SEQ:087_R2_CTLA4BP-5x4-1f	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVCPV	
SEQ:088_R2_CTLA4BP-5x5-2e	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNETLRRESVRPV	
SEQ:089_R2_CTLA4BP-5x5-6e	(241)	DNLLPSWAITLISANGIFVICCLTHCFAPRCRERKSNERLRRESVRPV	
SEQ:090_R2_CTLA4BP-5x6-9d	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV	
SEQ:091_R2_CTLA4BP-5x8-1f	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV	
SEQ:092_R2_CTLA4BP-5x9-12c	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERKSNERLRRESVRPV	
SEQ:222_ctla5x9d10	(241)	DNLLPSWAITLISVNGIFVICCLTHCFAPRCRERRRNERLRRESARPV	
SEQ:223_ctla5x6f6	(241)	DNLLPSWAITLISANGIFVICCLTYRFAPRCRERRRNERLRRESVCPV	
SEQ:224_ctla5x5h12	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNGRLRRESVRPV	
SEQ:225_ctla5x5c10	(241)	DNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVHPV	

Fig. 3G

ECD → | ← TMD → | ← CD →  
 241 288  
 SEQ:226\_ctla5x3e8 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:227\_ctla5x3c4 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:228\_ctla5x3c3 (241) DNLPSWAITLISVNGIFVICCLTHCFAPGCRERRRNRRLRRESVCPV  
 SEQ:229\_ctla5x2h11 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERKSNRRLRRESVCPV  
 SEQ:230\_ctla5x2d7 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:231\_ctla5x2b7 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:232\_ctla5x2b1 ns (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPVWGTGLKFKPXIS  
 SEQ:233\_ctla5x1f1 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:234\_ctla5x1d7 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:235\_ctla2x4g9 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERKSNRRLRRESVCPV  
 SEQ:236\_ctla2x4a6 (241) DNLPSWAITLISVNGIFVICCTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:237\_ctla2x2f3 (240) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:238\_ctla2x2f12 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:239\_ctla2x1g8 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERKSNRRLRRESVCPV  
 SEQ:240\_ctla2x1f10 (241) DNLPSWAITLISVNGISVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:241\_ctla2x1c9 (241) DNLPSWAITLISVNGIFVICCLTHCFAPGCRERRRNRRLRRESVCPV  
 SEQ:242\_ctla2x1h12 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERKSNRRLRRESVCPV  
 SEQ:243\_ctla2x1e2 (241) DNLPS-AITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESIHVP  
 SEQ:244\_ctla2x1c4 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
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 SEQ:246\_ctla2x2f1 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
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 SEQ:248\_ctla5x4a1 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:249\_ctla5x2f3 (241) DNLPSWAITLISVNGIFVICCLTHCFAPGCRERKSNRRLRRESVCPV  
 SEQ:250\_ctla5x2e12 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:251\_ctla2x4h11 (241) DNLPSWAITLISVNGIFVICCLAYCFAPGCRERRRNRRLRRESVCPV  
 SEQ:252\_ctla2x3h2 (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERKSNRRLRRESVCPV  
 SEQ:286\_CTla4BP\_Con (241) DNLPSWAITLISVNGIFVICCLTYCFAPGCRERRRNRRLRRESVCPV

Fig. 3H

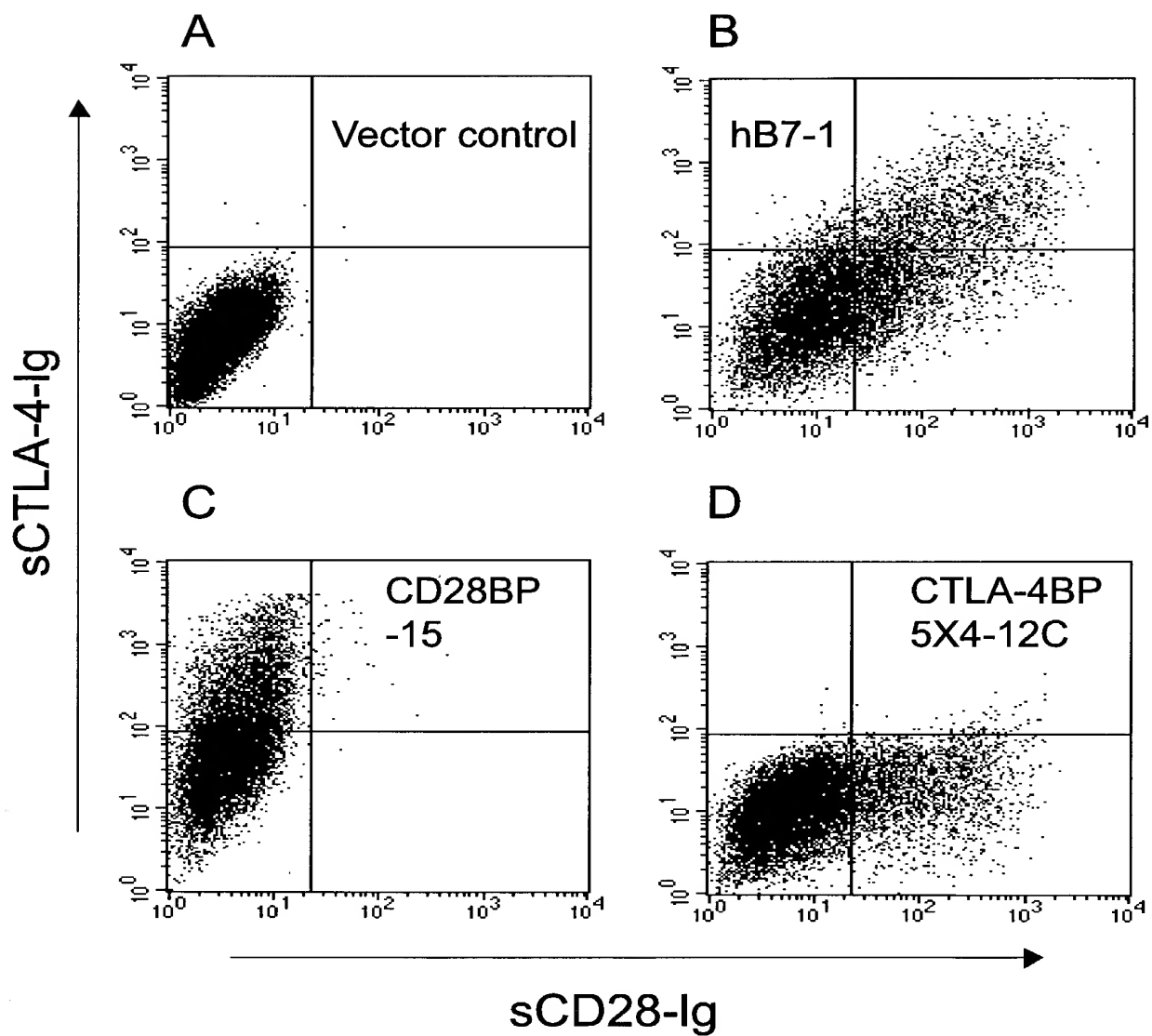
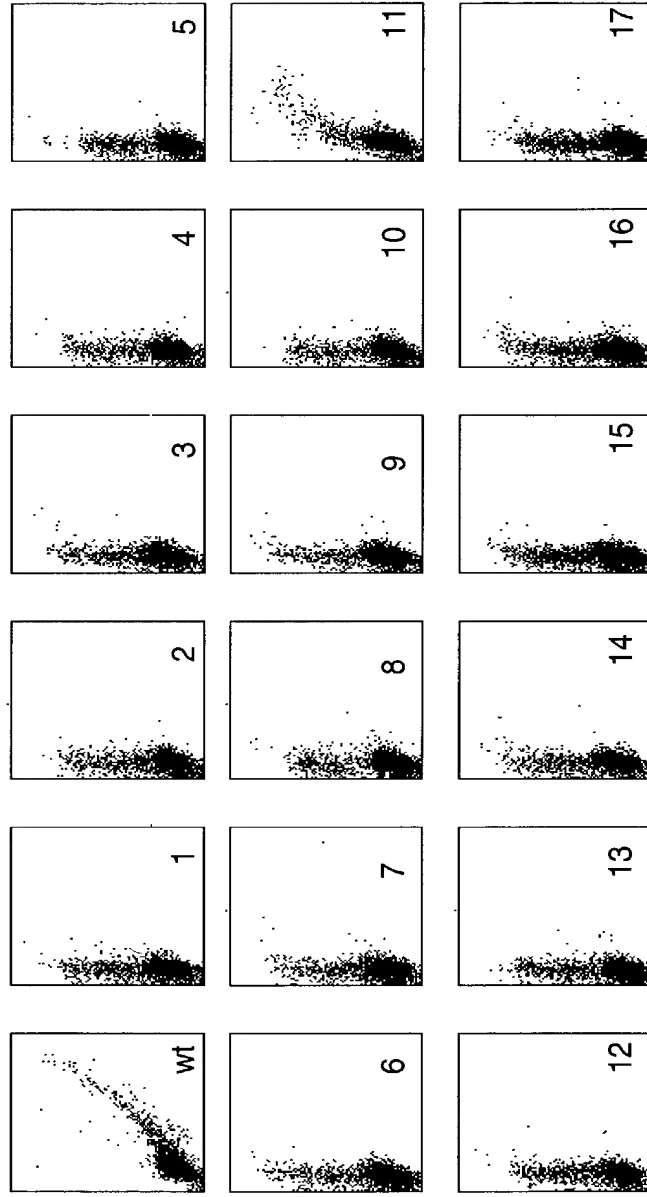


Fig. 4

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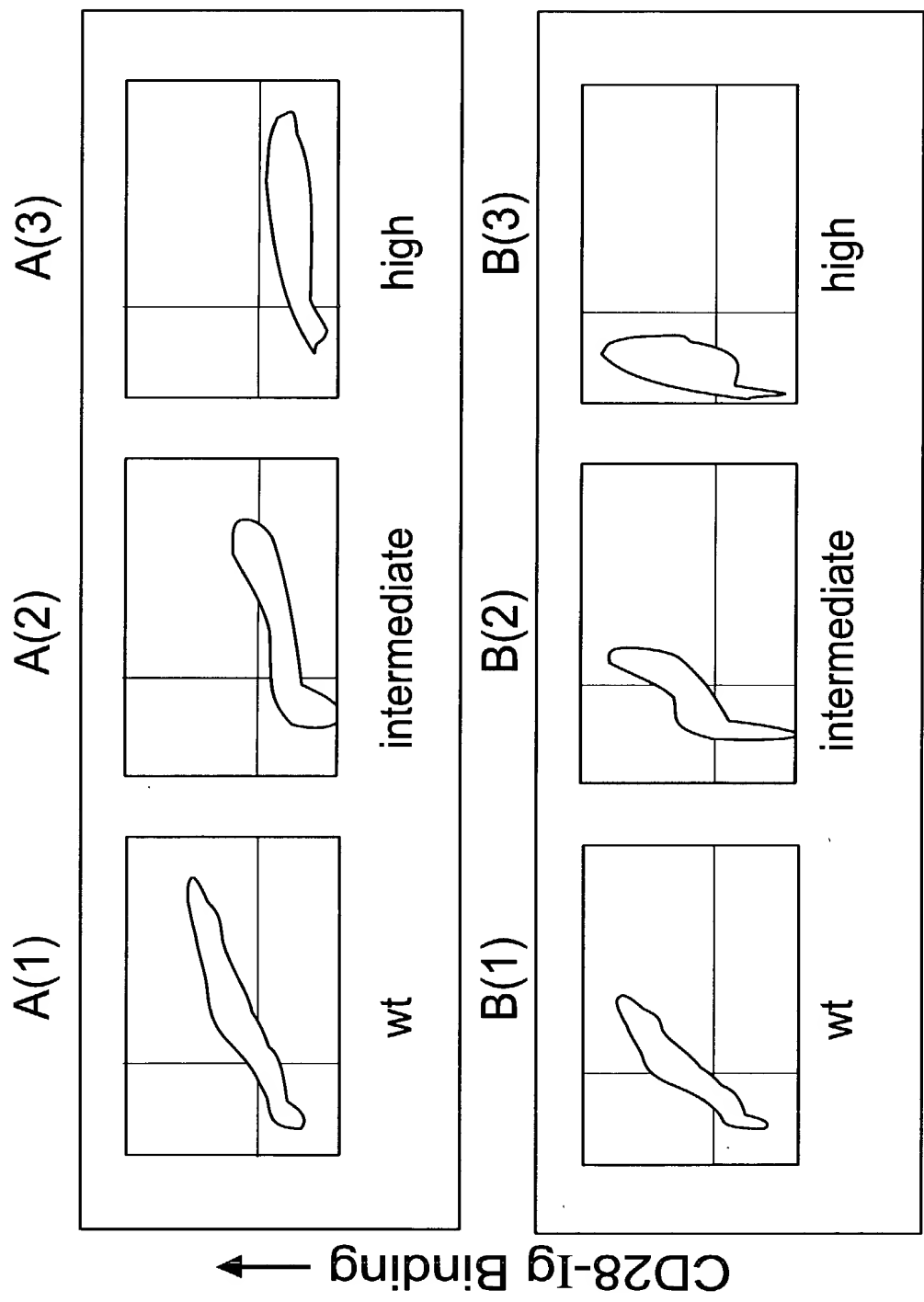
CTLA4 Binding

CD28  
Binding

Fig. 5



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CTLA-4-Ig Binding →

Fig. 6

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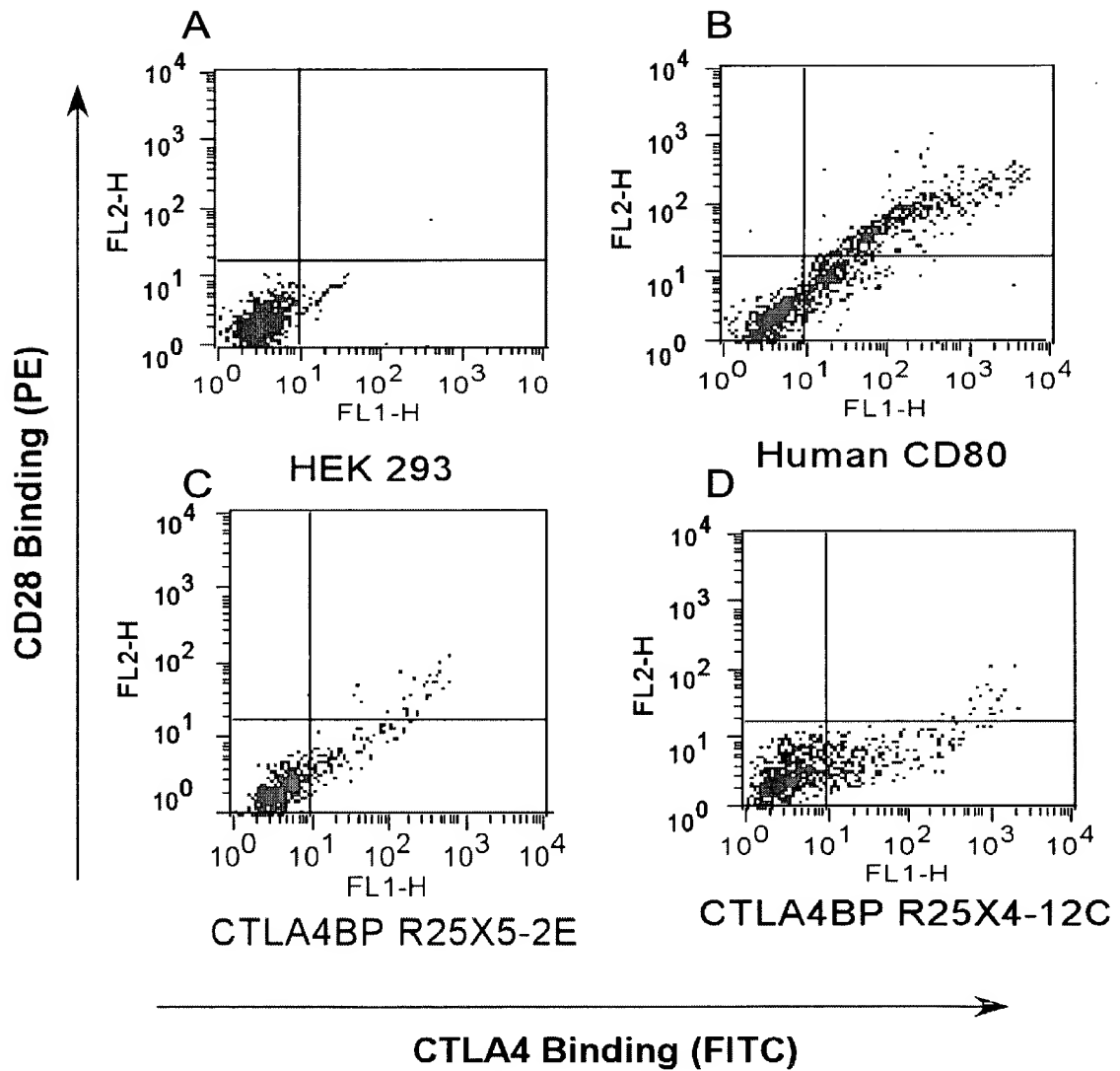


Fig. 7A-D

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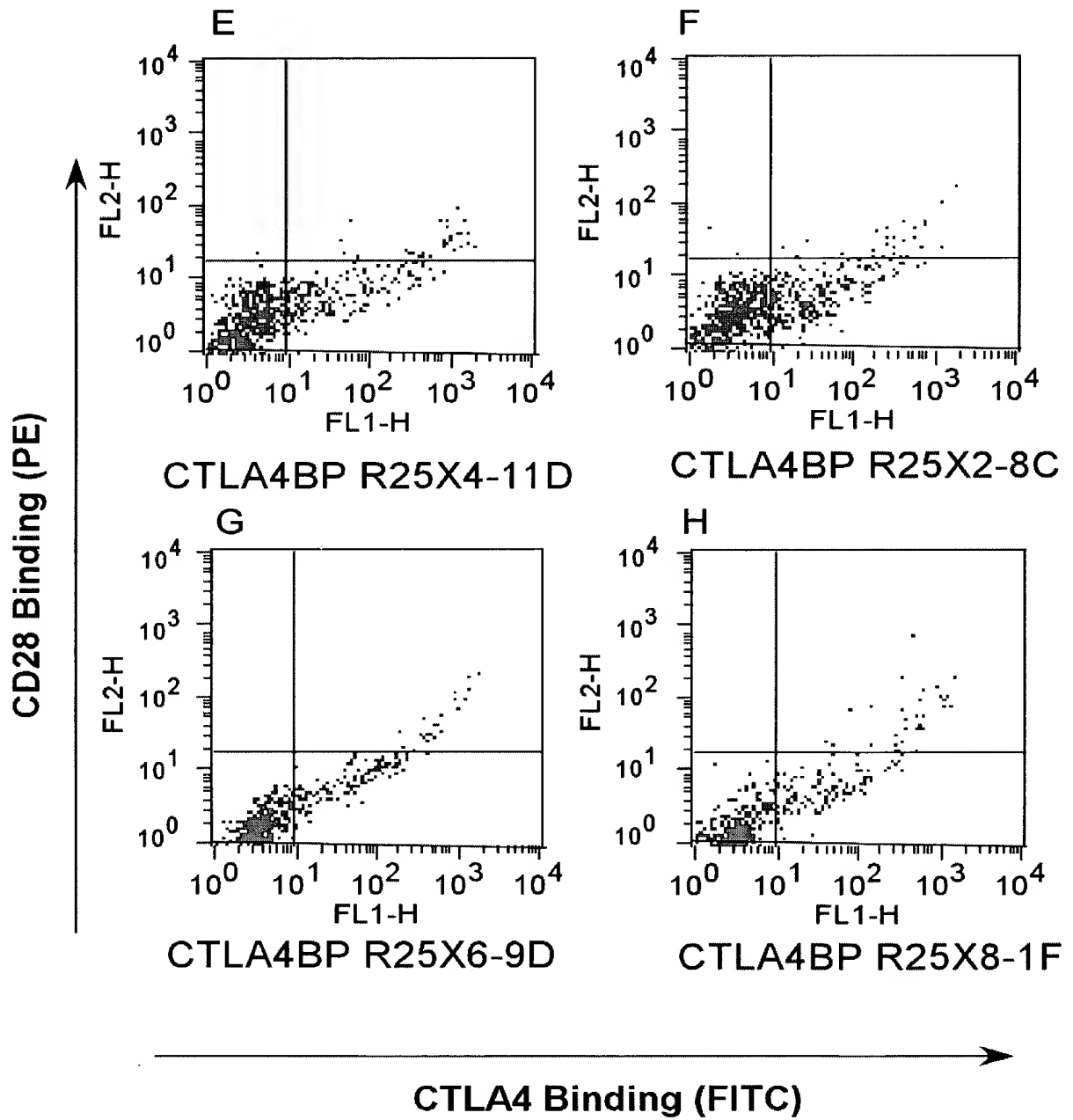


Fig. 7E-H

CTLA-4BP



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 KREHLAEVMSVKADFPTSPISDFEIPPSNIRRIICSTSGGFPEPHLFWLENGEELNAINTTVSQ  
 DPETELYTVSSKLDENMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLPSWAITLISA  
 NGIFVICCLTYRFAPRCRERKSNETLRRESVRPV

Fig. 8A

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CD28BP

MGHTMKWGSLPPKRPCLWLSQLLVLTGLFYFCSGITPKSVTKRVKETVMLSCDYNSTEELT  
 SLRIYWQKDSKMVLAAILPGKVQVWPEYKNRTITDMNDNPRIVILALRPDSGTYTCVIQKPVLK  
 GAYKLEHLASVRLMIRADFPVPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENGEELNATNT  
 TVSQDPGTELYMISSSELDENVTNNHSIVCLIKYGELSVSQIFPWSKPKQEPPIDQLPFWWIIPVS  
 GALVLTAVVLYCLACRHVARWKTRRNEETVGTERLSPIYLGSAQSSG

Fig. 8B

human rhesus/baboon  
 orangutan cow  
 rhesus rabbit  
 baboon



- ◇- Vector control
- hB7-1
- CD28BP-15
- ◻- CD28BP-Flag
- ▲- CTLA-4BP 5X4-12c
- ◻- hB7-1-Flag

Fig. 9A

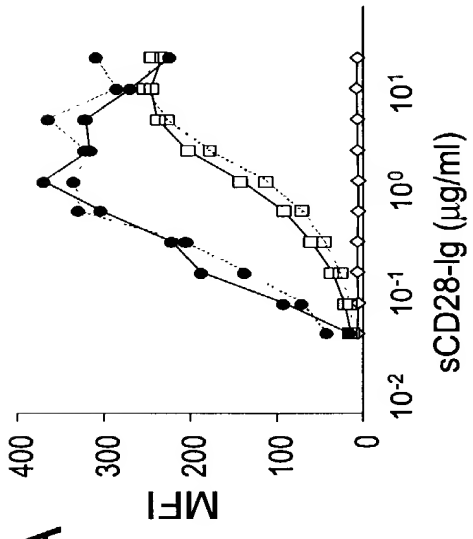


Fig. 9B

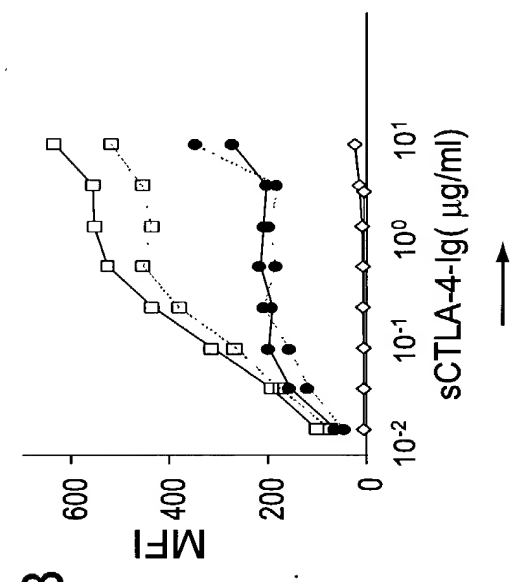


Fig. 9C

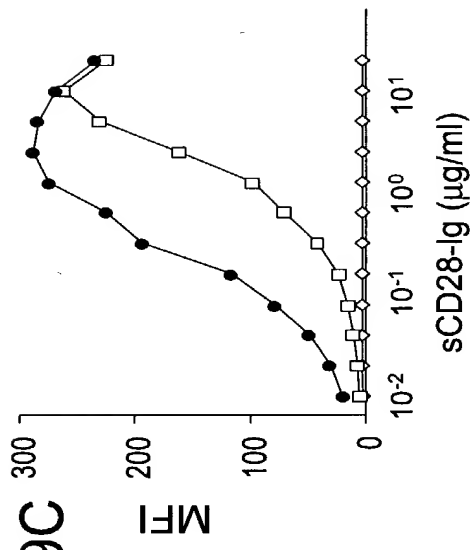
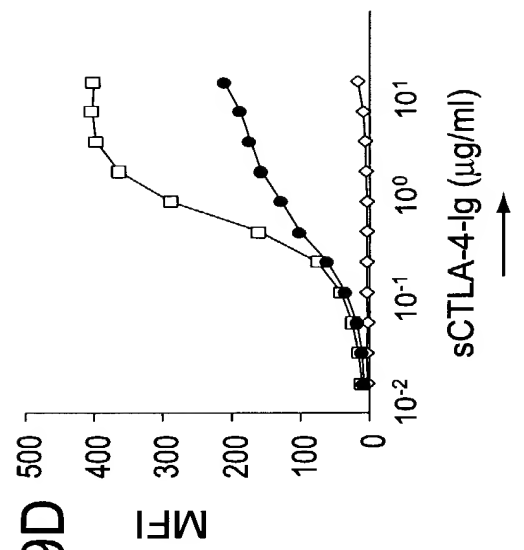


Fig. 9D





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- ◇ Vector control
- hB7-1
- ▣ hB7-1-Flag
- CD28BP-15
- CD28BP-Flag
- ▲ CTLA-4BP 5X4-12c

Fig. 9E

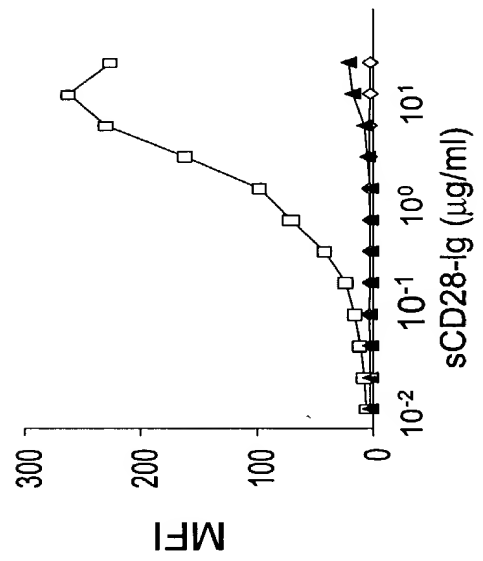


Fig. 9G

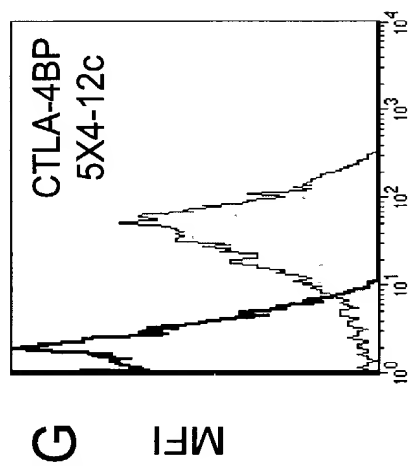


Fig. 9F

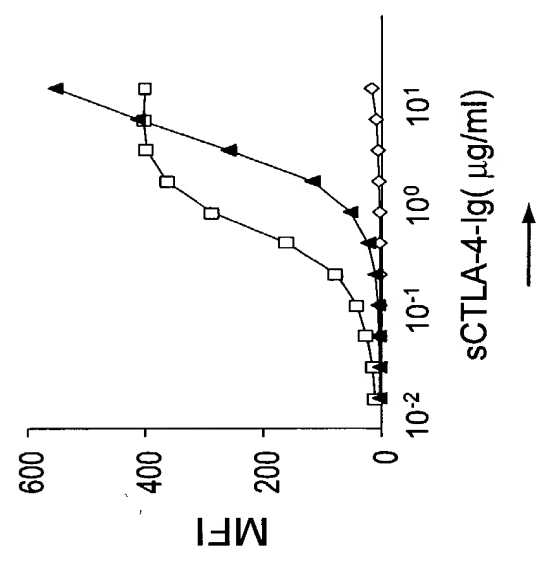
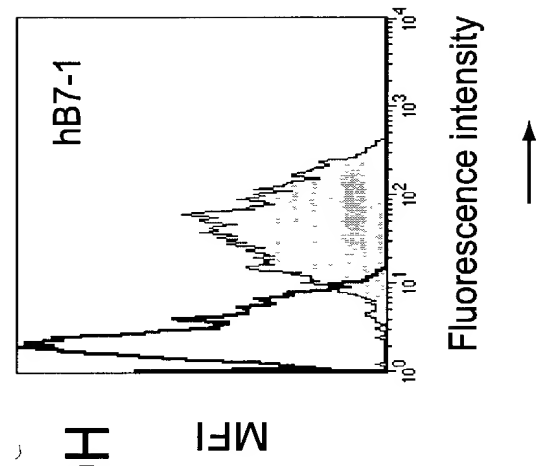


Fig. 9H



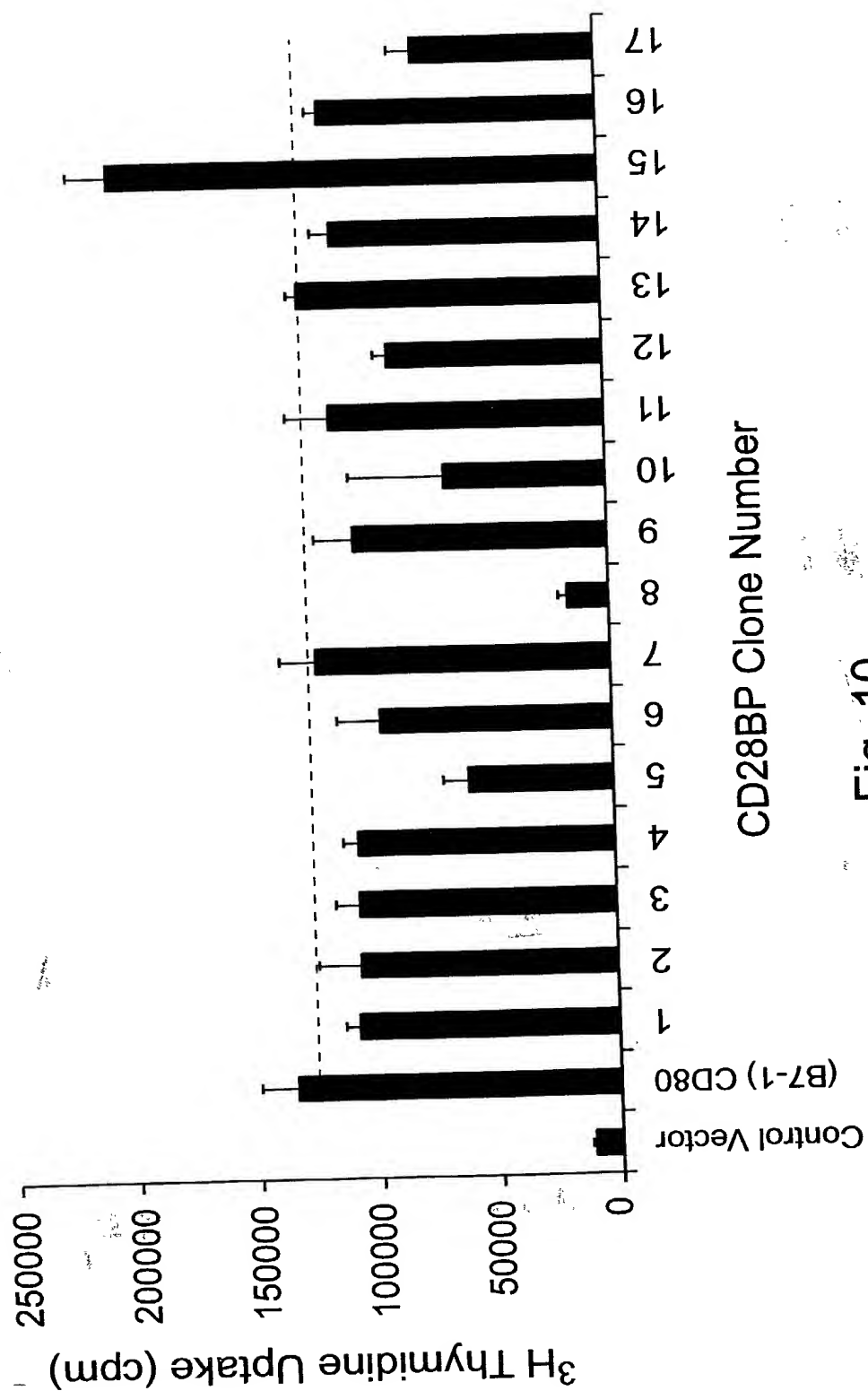


Fig. 10

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Fig. 11A

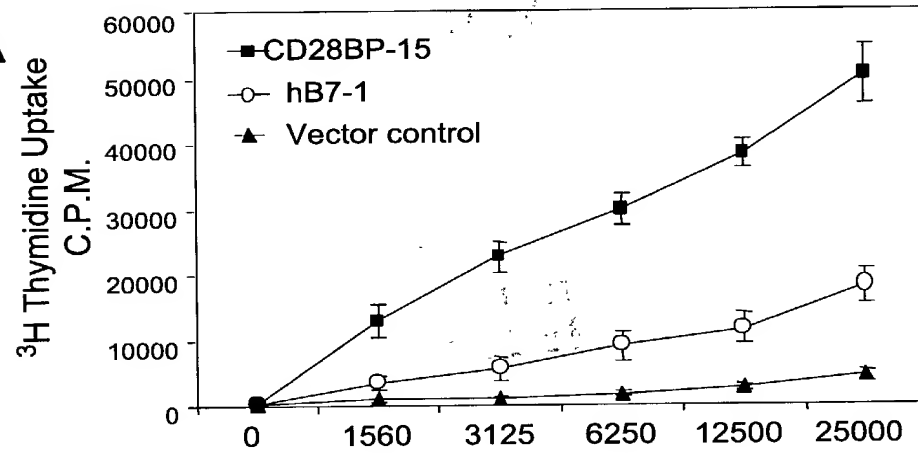


Fig. 11B

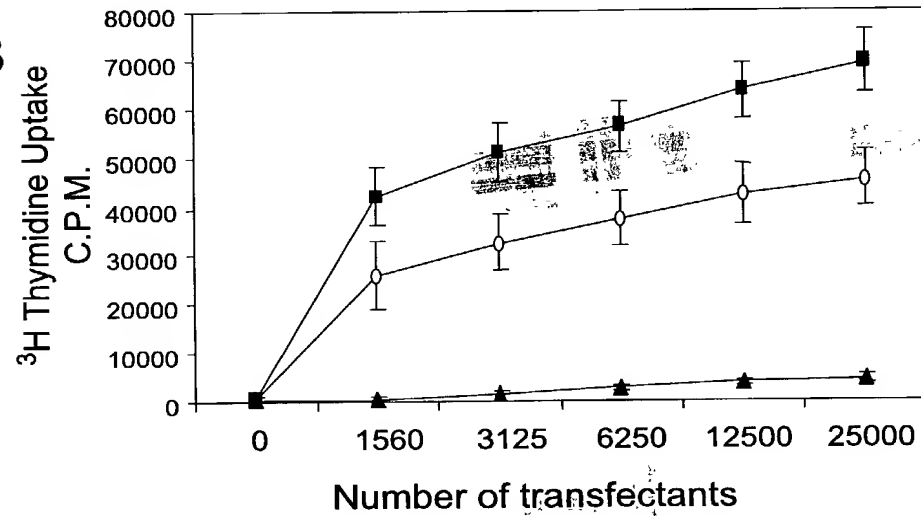
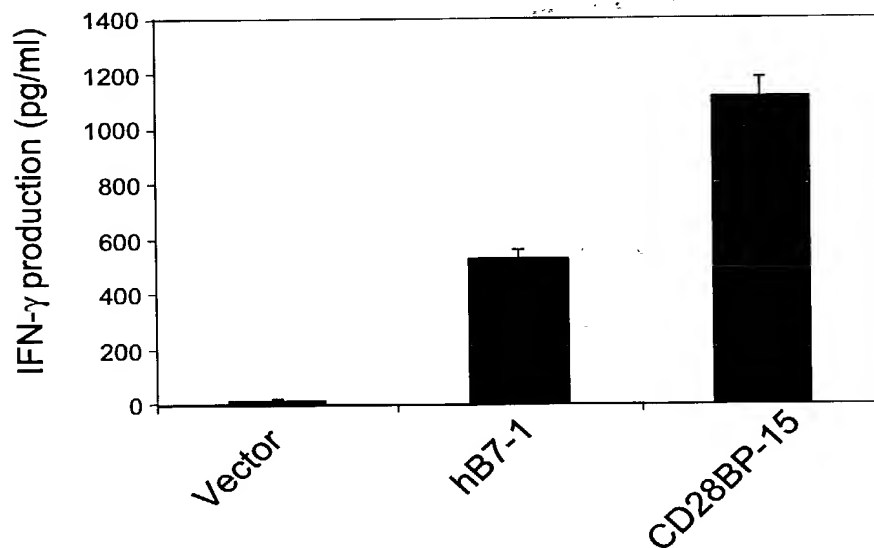


Fig. 11C



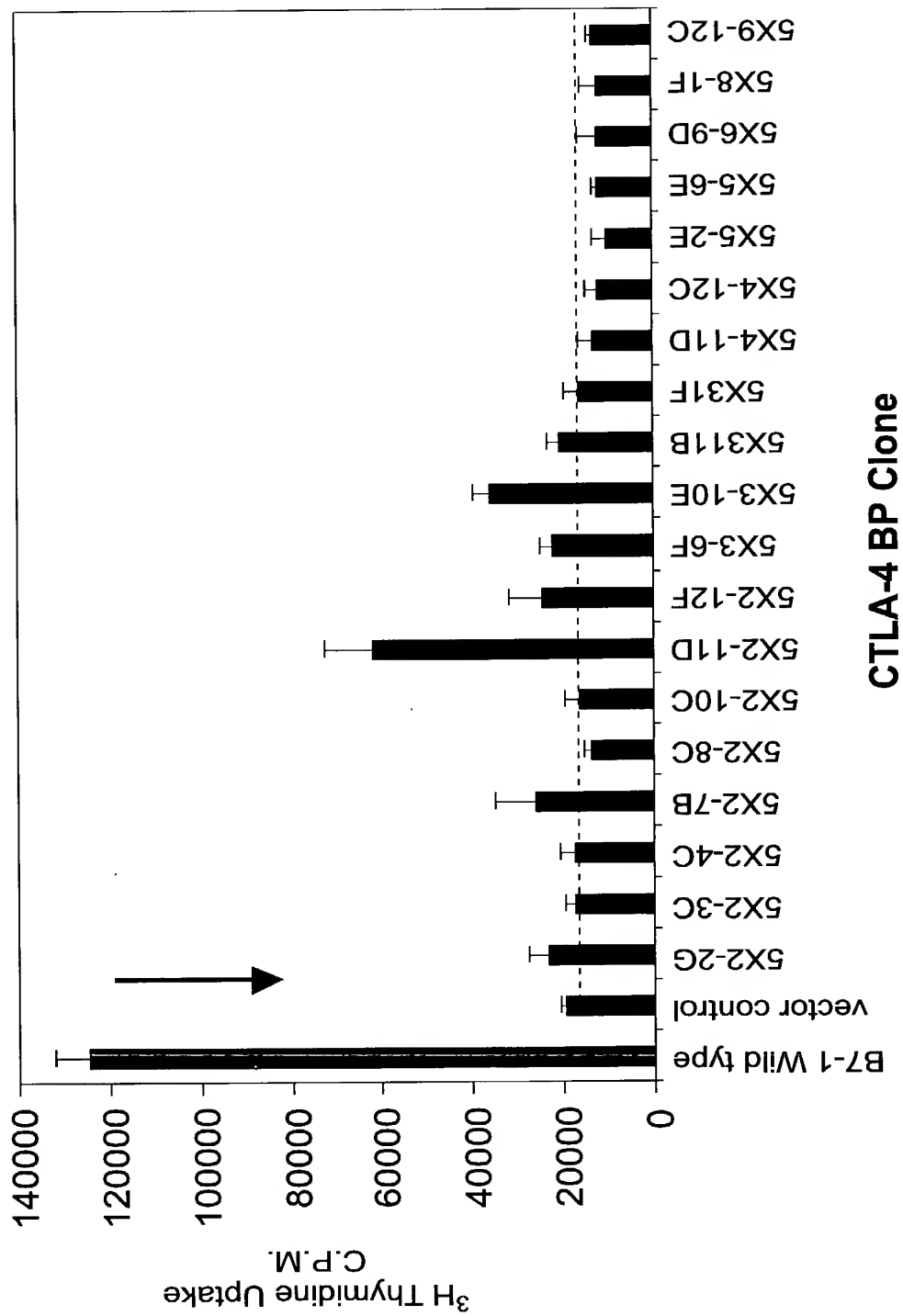


Fig. 12

Fig. 13A

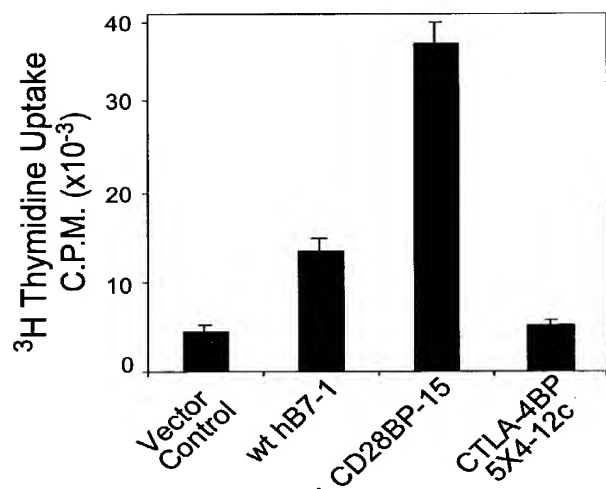


Fig. 13B

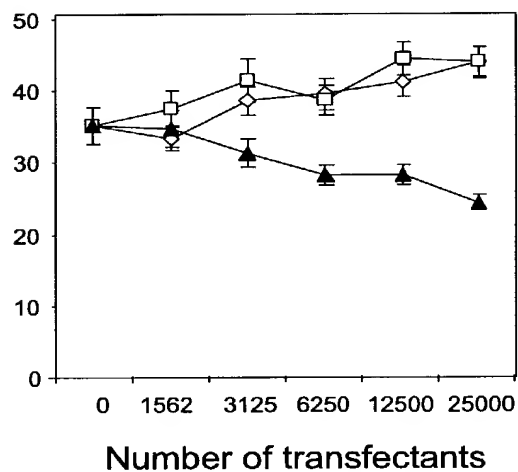


Fig. 13C

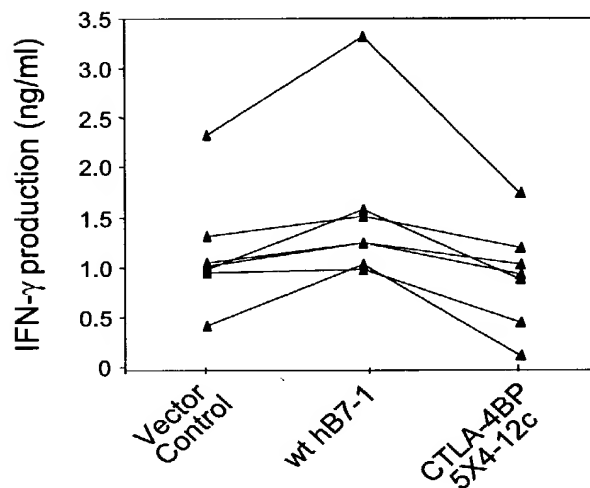


Fig. 13D

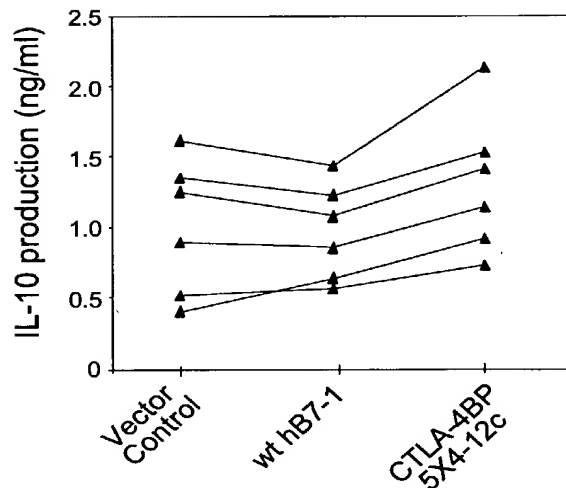


Fig. 14A

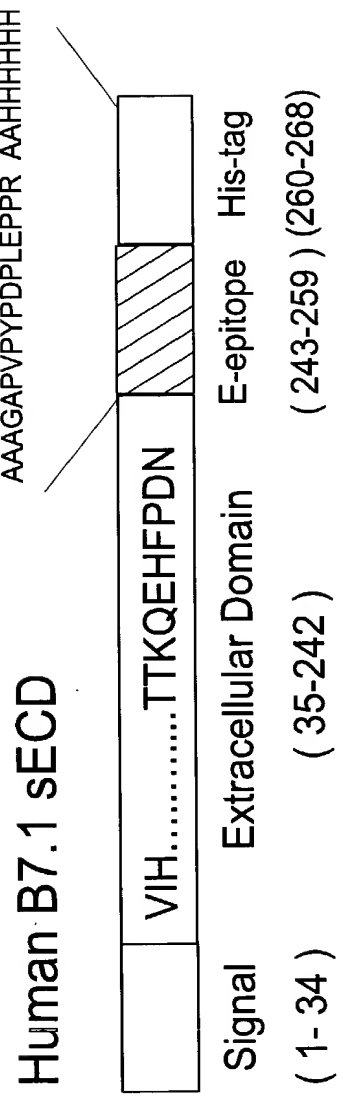
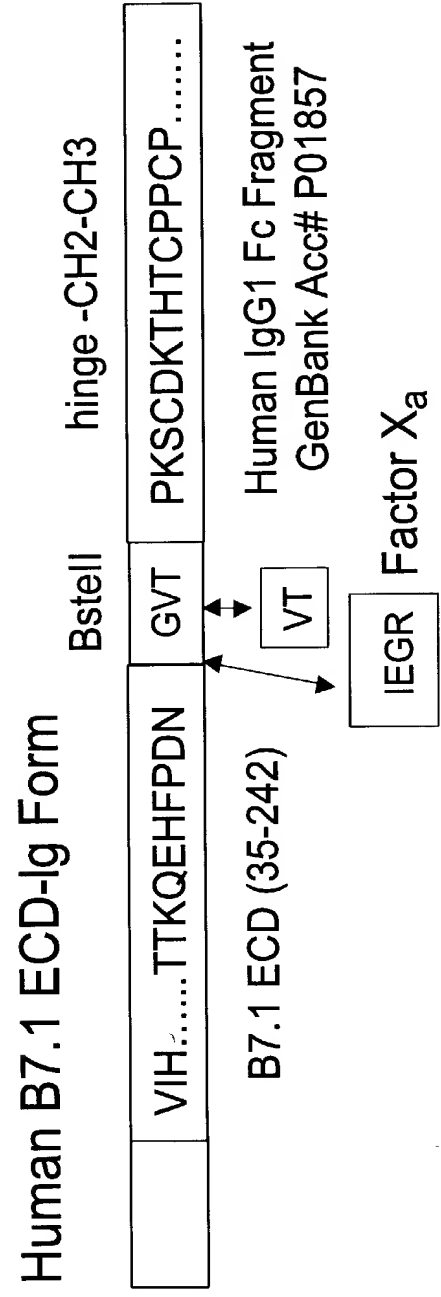


Fig. 14B



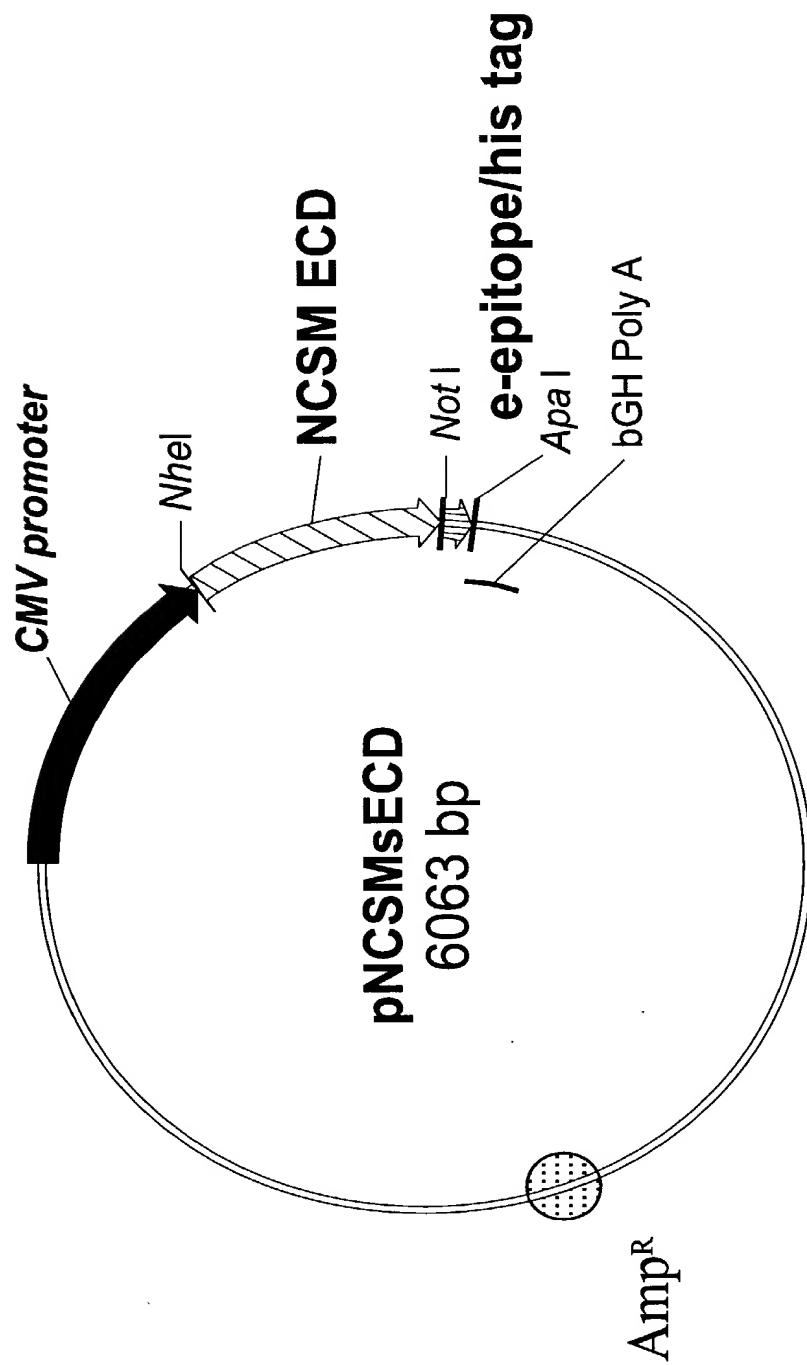


Fig. 15



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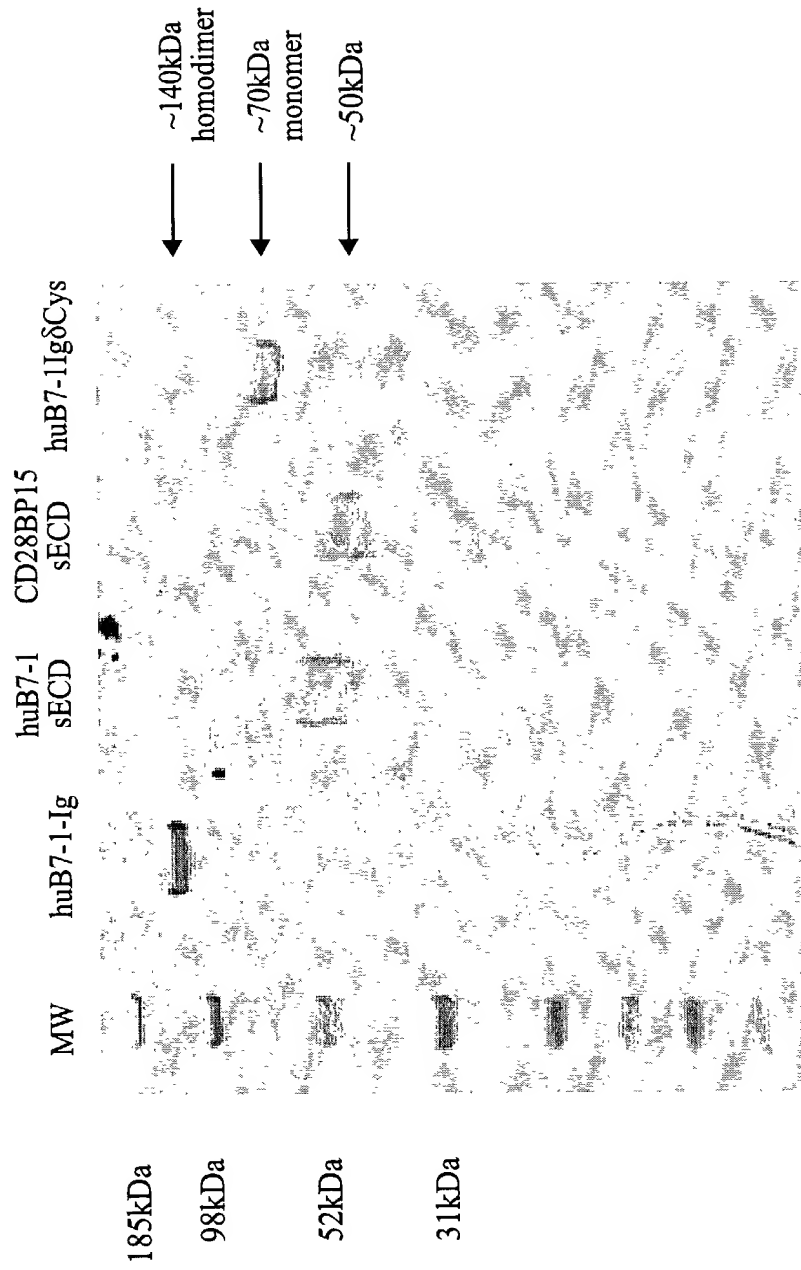


Fig. 16



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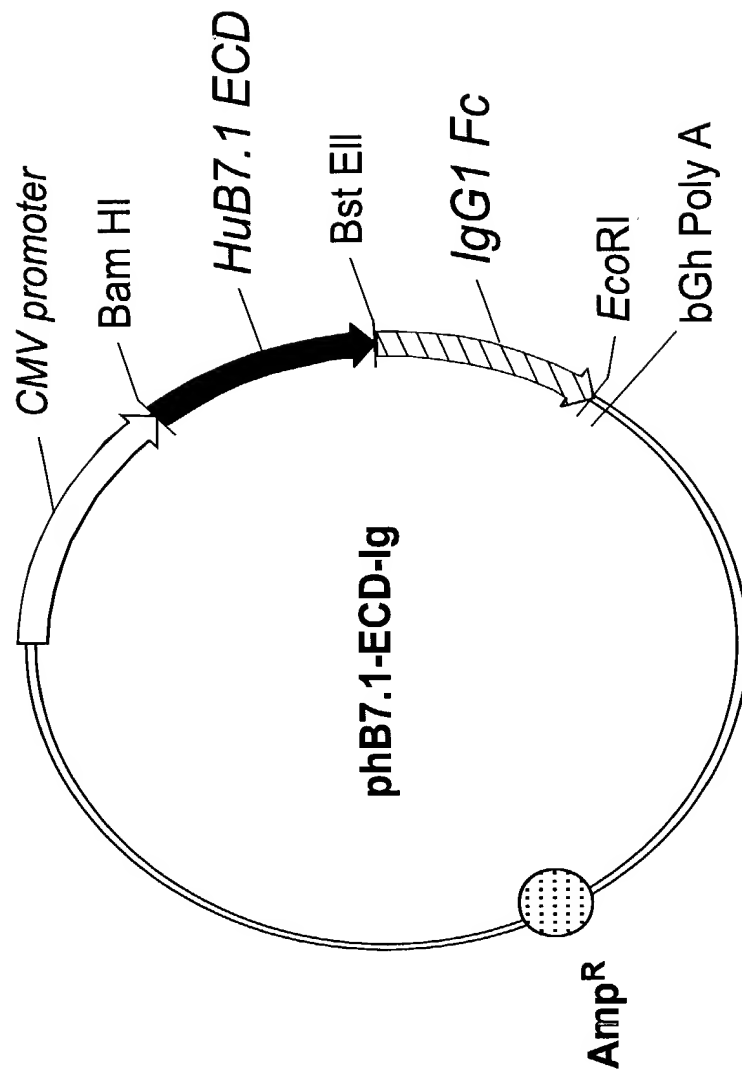
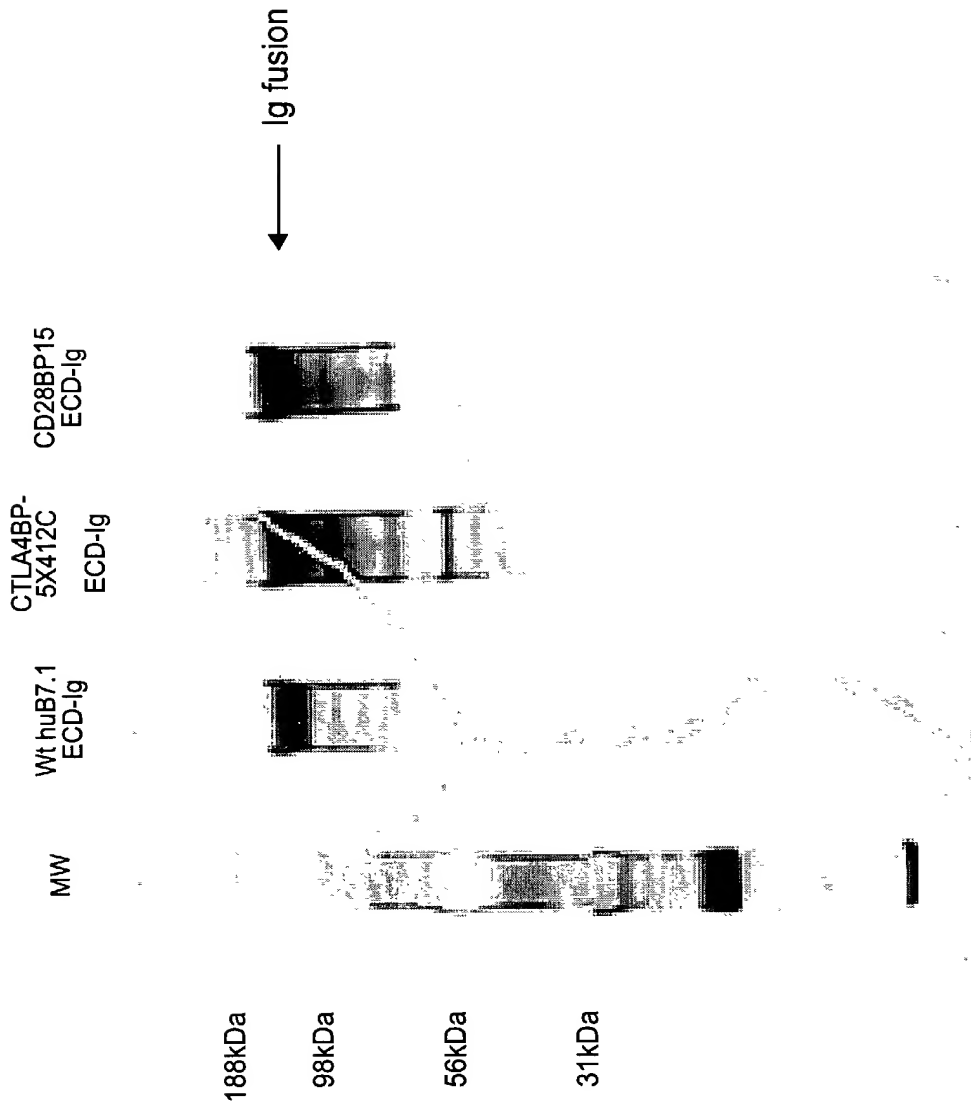


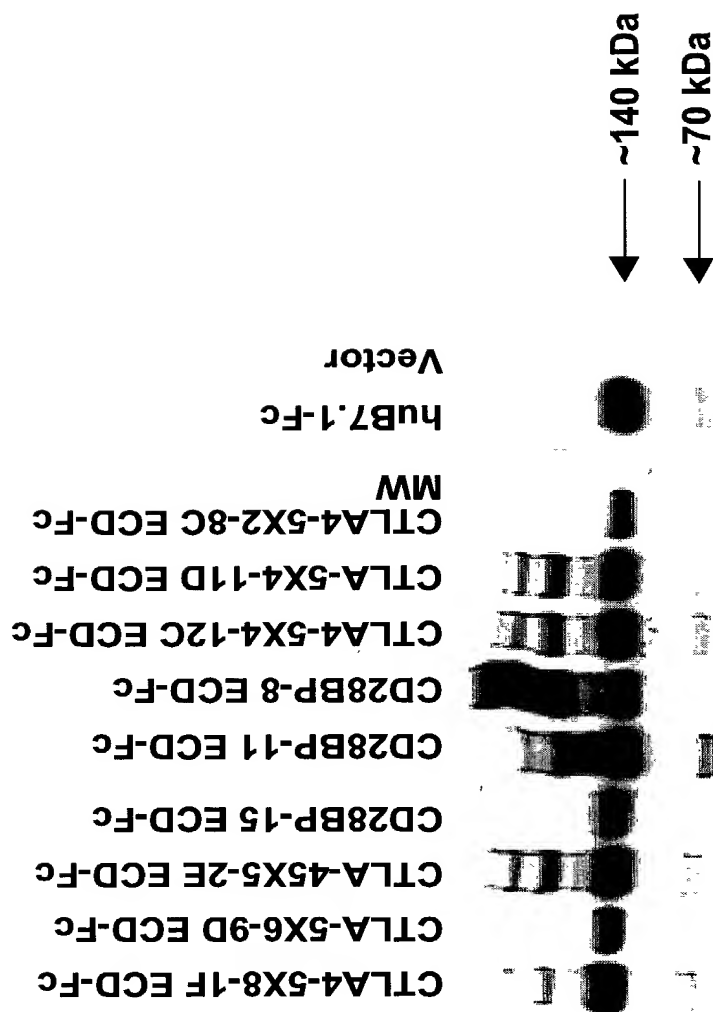
Fig. 17



**Fig. 18**

# Expression of CTLA-4BP-Ig and CD28BP-Ig Proteins

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**Fig. 19**

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Fig. 20A

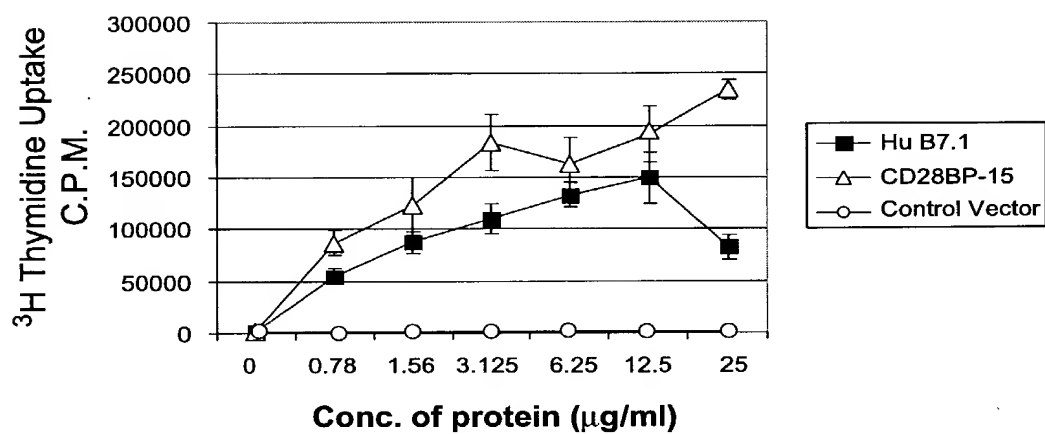
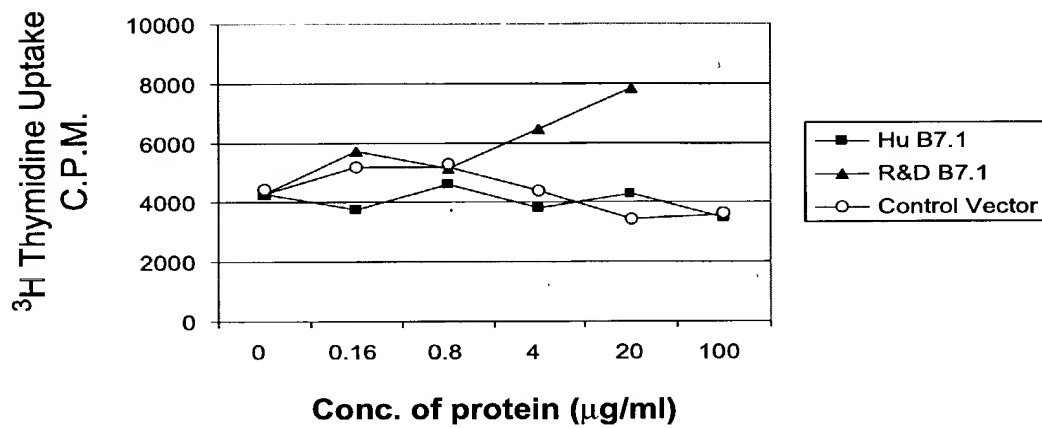


Fig. 20B



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Fig. 20C

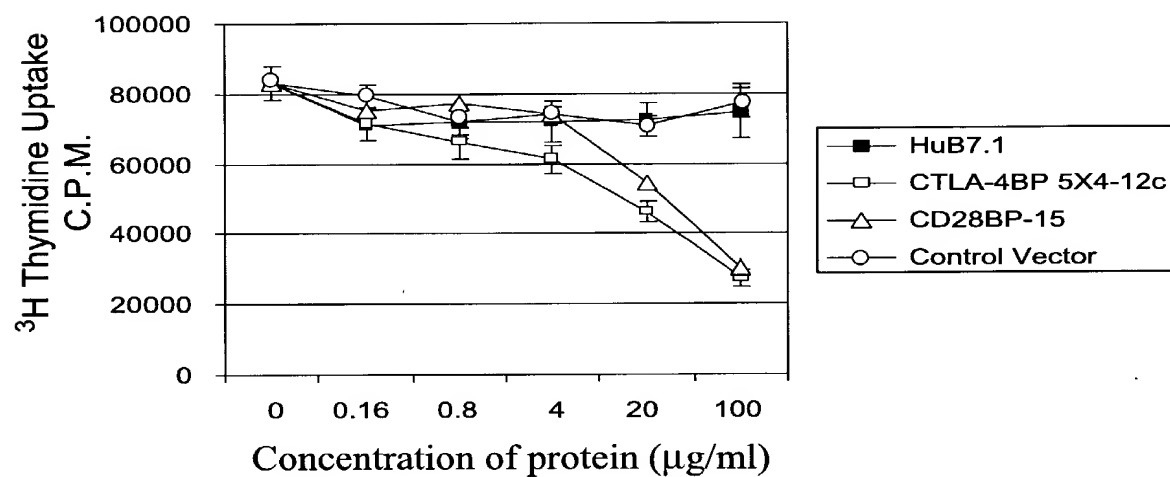
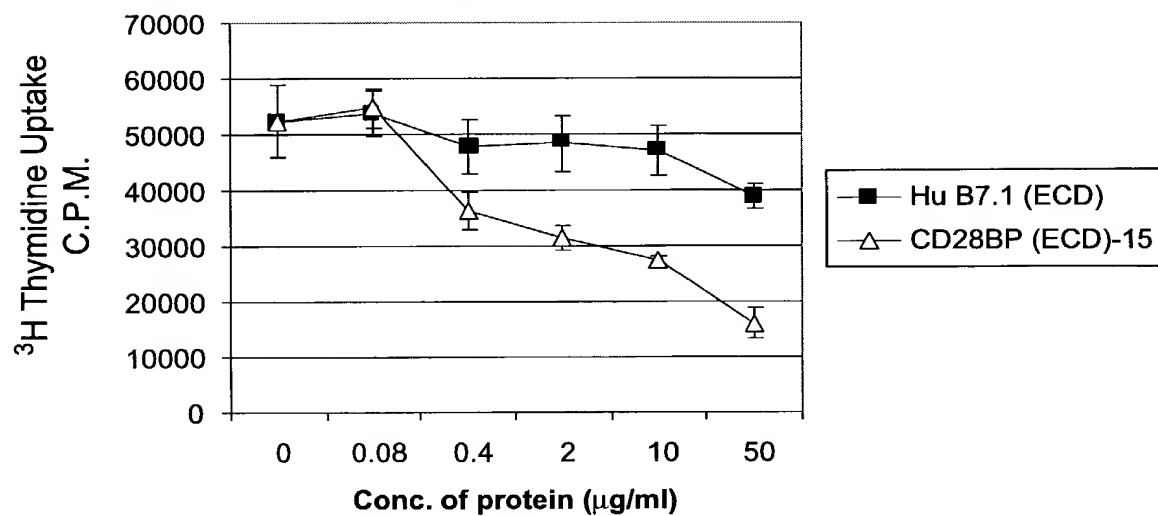


Fig. 20D



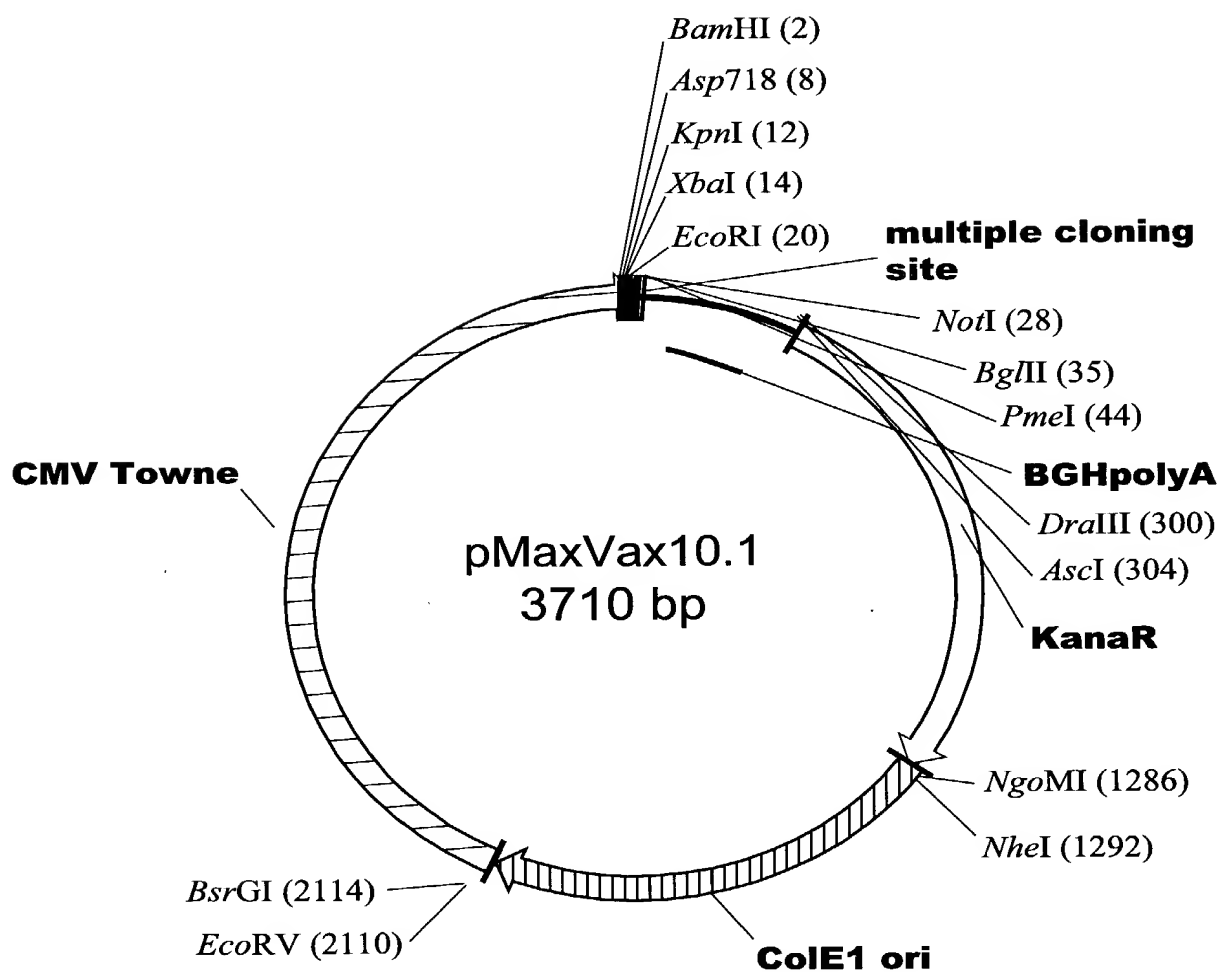


Fig. 21

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Fig. 22A

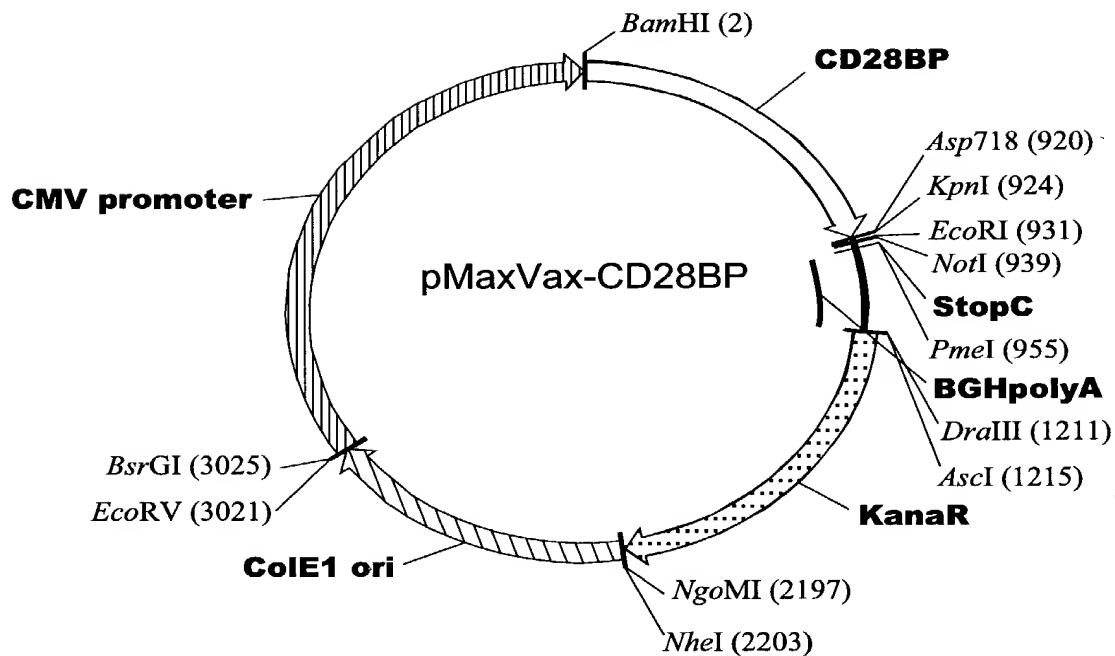


Fig. 22B

